

**COMPENDIUM
OF
HERBICIDE
ADJUVANTS**

PREPARED BY

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DEPOSITION (DRIFT CONTROL) AND RETENTION AGENTS PLUS AMMONIUM SULFATE				
PRODUCT NAME	MFG/DISTRIBUTOR	PRINCIPAL FUNCTIONING AGENTS	USE RANGE	COMMENTS
ACCU-QUEST	Helena Chemical Co.	Blend of water soluble polymers and ammonia salts, and sequestrants	0.5% v/v or 2 qt/100 gal, see label	Contains deposition agents and defoamers
AFFIX	Southern States Cooperative Inc.	Proprietary blend of ammonium salts plus modified elastomer polymer	9-14 lb/100 gal	Micro-homogenized
AMS 20/10	United Suppliers, Inc.	Ammonium salts with multifunctioning polymeric dispersing agent and antifoam	10 lb/100 gal	AMS / deposition combination
AMS 2000	United Suppliers, Inc.	Ammonium salts and multifunctioning polymeric dispersing agents and antifoam	2-4 lb/A or 17 lb/100 gal	AMS / deposition combination
AMS ARROW	Riverside - Cenex / Land O'Lakes	Blend of micro-homogenized organo-modified elastomer polymers and ammonium salts	9 lb/100 gal	Contains a defoamer
AMS COMPLETE	GROWMARK Inc. / Universal Coop. Inc.	Ammonium sulfate solution, acrylamide sodium acrylate linear copolymer	2.5-5 gal/100 gal	
AMS PLUS	Coastal Chemical Corp.	Ammonium sulfate plus proprietary blend of polyacrylamides and dimethylpolysiloxanes	2.5 gal/100 gal	
AMTSOL	United Suppliers, Inc.	34% liquid ammonium sulfate	17 lb=5 gal or 3.4 lb=1 gal	
AMTSOL PLUS	United Suppliers, Inc.	34% liquid AMS containing soluble polymer complex	5 gal/100 gal	Delivers 17 lb of AMS/100 gal
ARRAY	Estes, Inc.	Proprietary blend	9-14 lb/100 gal	AMS, deposition agent and defoamer
ARRAY	INTEC	Proprietary blend of ammonium salts plus modified elastomer polymer	9-14 lb/100 gal	Micro-homogenized
ARRAY	Rosens, Inc.	Proprietary blend of ammonium salts and modified elastomer polymer	9-14 lb/100 gal	Micro-homogenized

ARROW 3	Riverside - Cenex / Land O'Lakes	Ammonium sulfate solution, polyacrylamide polymer, silicone emulsion	2.5 gal/100 gal	
BORDER XTRA 4L	Precision Labs, Inc.	Ammonium sulfate, HPG polymer dimethylpolysiloxane antifoam and formulation aids	5 gal/100 gal	Provides 17 lb AMS and optimum level of HPG polymer
BORDER XTRA 8L	Precision Labs, Inc.	Ammonium sulfate, HPG-polymer dimethylpolysiloxane antifoam and formulation aids	2.5 gal/100 gal	Provides 8.5 lb AMS and optimum level of HPG polymer
BORDER XTRA DF	Precision Labs, Inc.	Ammonium sulfate, HPG polymer, dimethylpolysiloxane defoamer	9 lb/100 gal	Provides 8.5 lb AMS and optimum level of HPG polymer
CLASS CORRAL AMS DRY	Class - Cenex / Land O'Lakes	Blend of micro-homogenized organo-modified elastomer polymers and ammonium salts	9 lb/100 gal	
CLASS CORRAL AMS LIQUID	Class - Cenex / Land O'Lakes	Ammonium sulfate solution, polyacrylamide polymer, silicone emulsion	2.5 gal/100 gal	
COMPLETE	Conklin Co., Inc.	Spray grade ammonium sulfate and drift retardant (polyvinyl polymer) blend solution	2.5 or 5 gal/100 gal	Contains 3.4 lb AMS/gal, AMS / drift management combination
CORRAL AMS DRY	Riverside - Cenex / Land O'Lakes	Blend of micro-homogenized organo-modified elastomer polymers and ammonium salts	9 lb/100 gal	
CORRAL AMS LIQUID	Riverside - Cenex / Land O'Lakes	Ammonium sulfate solution, polyacrylamide polymer, silicone emulsion	2.5 gal/100 gal	
ELECTRA LITE	GROWMARK Inc.	Ammonium salts and multifunctioning polymeric dispersing agents	1-2 lb/A or 10 lb/100 gal	
ELECTRA PLUS	GROWMARK Inc.	Ammonium salts and multifunctioning polymeric dispersing agents	2-4 lb/A or 17 lb/100 gal	
GLY AD ULTRA DC	Big Rivers Agri Supply	Ammonium sulfate, nonionic organic polymers and dimethylpolysiloxane	9 lb/100 gal of water	Defoamed

(continued)

DEPOSITION (DRIFT CONTROL) AND RETENTION AGENTS PLUS AMMONIUM SULFATE (continued)

PRODUCT NAME	MFG/DISTRIBUTOR	PRINCIPAL FUNCTIONING AGENTS	USE RANGE	COMMENTS
INFIELD	Brandt Consolidated	Liquid AMS and polymer	2.5-5 pt/100 gal	Completely water soluble
PRO-PAK	WILFARM, L.L.C.	Pre-mix of placement and ammoniated salt solution	1-2 gal/100 gal	Convenience formulation
SURF PLUS	Agso, Inc.	Liquid ammonium sulfate and polyacrylamide	2.5-5 gal/100 gal	AMS and deposition aid / drift retardant

COMPATIBILITY AGENTS

PRODUCT NAME	MFG/DISTRIBUTOR	PRINCIPAL FUNCTIONING AGENTS	USE RANGE	COMMENTS
BLENDEX VHC	Helena Chemical Co.	Proprietary blend of alkyl/arylpolyethanol phosphate esters and other ethoxylated derivatives	0.5-5 pt/100 gal, see label	Non-flammable, contains wetting agents
CLASS COMPLETE	Class - Cenex / Land O'Lakes	Alkylarylpolyethoxy ethanol phosphates and organic phosphatic acids	1-3 pt/100 gal	
COBLEND	Estes, Inc.	Alkylarylpolyoxoethylene phosphate esters and ethoxylated derivatives	1-3 pt/100 gal	Compatibility and acidifying agent
COMBINE	Riverside - Cenex / Land O'Lakes	Phosphate esters of alkyl aryl polyoxoethanol and alcohol	1-3 pt/100 gal	
CO-MIX	Coastal Chemical Corp.	Alkylarylpolyethylene glycol phosphate esters	1 pt/100 gal	Includes buffers
COMPATIBILITY PLUS	United Suppliers, Inc.	Esters of polyalkylpolyoxoethylene at 60% plus coupling agents and other constituents at 40%	1-4 pt/100 gal	Compatibility and acidifying agent
COMPEX	Kalo, Inc.	Alcohol sulfates, sodium alkylbutanediamate, polyesters of sodium thiobutanedioate	1-3 pt/100 gal	

E-Z MIX	Loveland Industries	Esters of alkylpolyoxoethylene ethers	1-2 pt/100 gal	
FA-1	Helena Chemical Co.	Proprietary blend of compatibility and stabilizing agents	0.5 gal/100 gal, see label	Designed for use with fertilizer carriers
JUSTICE	Jay-Mar, Inc.	Phosphate esters of polyoxoethanol alcohol and phosphoric acids	2-20 oz/100 gal	Compatibility and buffering agent
KEM LINK	GROWMARK Inc. / Universal Coop. Inc.	Alkylarylpolyoxoethylene-glycol phosphate ester	1-4 pt/100 gal	Also a buffering agent
KOMBIND	Conklin Co., Inc.	Isopropyl alcohol, phosphate esters	0.5-1.5 pt/100 gal	Also an acidifier and buffer agent
LEAF AID II	Cannon Packaging Co. Inc.	Poly-ethoxylated alkylamines, alkyl polyoxoethylene glycols and organic acids	2-8 pt/100 gal	Adjusts pH
LICOMBO	Loveland Industries	Phosphatidylcholine esters of alkylpolyoxoethylene ethers, methylacetate acid, and propyl carbinol	0.5-3 pt/A or 100 gal	Also an NIS
MIX	Drexel Chemical Co.	Alkylarylpolyoxoethylene glycol phosphate ester surfactants	1-4 pt/100 gal	Use with chemical mixtures in liquid fertilizer or water
UNIBLEN	WILFARM, L.L.C.	Acid polyglycols and methyl alcohol plus formulation aids	0.5-3 pt/100 gal	
UNITE	Loveland Industries	Acidpolyglycols and methyl alcohol	1-3 pt/100 gal	

NITROGEN SOURCES (continued)

PRODUCT NAME	MFG/DISTRIBUTOR	PRINCIPAL FUNCTIONING AGENTS	USE RANGE	COMMENTS
SPRAY GRADE AMMONIUM SULFATE SOLUTION DRY	Brandt Consolidated	7-0-0-8 (S) liquid, 100% water soluble	1 gal = 3.33 lb of dry ammonium sulfate	200 mesh screened
SPRAY GRADE AMS SOLUTION	WILFARM, L.L.C.	Spray grade ammonium sulfate	2.4 lb/A or 8.5-17 lb/100 gal	Highly soluble
SPRAYABLE AMS SURF	WILFARM, L.L.C.	Spray grade ammonium sulfate	2.4-4.8 qt/A or 2.5-5 gal/100 gal	Mixes easily
UAN	Brandt Consolidated	Urea ammonium nitrate	1 gal/A	200 mesh screened, no free ammonia

DEPOSITION (DRIFT CONTROL) AND RETENTION AGENTS

PRODUCT NAME	MFG/DISTRIBUTOR	PRINCIPAL FUNCTIONING AGENTS	USE RANGE	COMMENTS
AFFECT	United Suppliers, Inc.	36% polyvinyl polymer	3.5 oz/100 gal	Liquid deposition
AIM	GROWMARK Inc. / Universal Coop. Inc.	1% polyvinyl polymer (polyacrylamide)	1-3 qt/100 gal	
AM CONCENTRATE	GROWMARK Inc. / Universal Coop. Inc.	30% polyvinyl polymer (polyacrylamide)	4-8 oz/100 gal	
BOND	Loveland Industries	Synthetic latex and primary aliphatic oxylated alcohols	2-4 oz/A	Spreader sticker with surfactant
BULL'S-EYE	Conklin Co., Inc.	Polyvinyl polymer (polyacrylamide)	1-8 oz/100 gal	See label for aerial and high pressure rates
CHEM-TROL	Loveland Industries	Polyvinyl polymer (polyacrylamide)	1-10 qt/100 gal	1% prediluted
CLASS PRECISION	Class - Cenex / Land O'Lakes	Polyvinyl polymer (polyacrylamide)	3.5 oz/100 gal	
DEFACT	Loveland Industries	Blend of copolymers and ethoxylated alcohols	1.5-2 pt/A	Hybrid MSO plus water conditioners
DESCEND	Estes, Inc.	Polyvinyl polymer (polyacrylamide)	1-8 oz/100 gal	Deposition aid / drift retardant
DOUBLEDOWN	United Suppliers, Inc.	34% Liquid AMS containing soluble polymer complex	2.5 gal/100 gal	Delivers 8.5 lb of AMS/100 gal
DOWN-RIGHT	GROWMARK Inc. / Universal Coop. Inc.	Acrylamide sodium acrylate linear copolymer in a glycerol acid complex	1-4 pt/100 gal	A concentrate for manufacturing AMS solutions
DROP ZONE DC	Helena Chemical Co.	Proprietary blend of nonionic water soluble organic polymers, dispersion additives, and formulation agents	6-18 oz/100 gal, see label	For aerial use only

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DEPOSITION (DRIFT CONTROL) AND RETENTION AGENTS (continued)

PRODUCT NAME	MFG/DISTRIBUTOR	PRINCIPAL FUNCTIONING AGENTS	USE RANGE	COMMENTS
DURATION II	Cannon Packaging Co. Inc.	Polymeric terpenes	1 pt/A	Retention agent, spreader, sticker and extender
GROUNDED	Helena Chemical Co.	Proprietary blend of aliphatic hydrocarbons, hexahydric alcohol ethoxylated and fatty acids	1-4 pt/5-30 gal, see label	
INTAC	Loveland Industries	Blend of polymers and co-polymers of oxylated alcohols	2-8 qt/100 gal	
INTAC PLUS	Loveland Industries	Blend of copolymers and organosilicone surfactant fluid	See label	
IVOD	Brewer International	100% limonene plus selected emulsifiers	Determined by orifice size	Invert oil
NUFILM 17	Miller/United Suppliers, Inc.	di-1-p-menthene 96%	8.16 oz/A	Retention agent, 28 days of extension at 16 oz rate
NUFILM P	Miller/United Suppliers, Inc.	Poly-1-p-menthene 96%	4.6 oz/A	Retention agent, 7 days extension at 4 oz rate
PLACEMENT	WILFARM, L.L.C.	Amine salts of organic acid, aromatic acid, aromatic and aliphatic petroleum distillate	2-8 oz/A	Encapsulates chemicals
PLYAC	Loveland Industries	Emulsified oxidized polyethylene and ethoxylated phenoxy alcohol	2-16 oz/100 gal	Hopkins label
POINT	GROWMARK Inc. / Universal Coop. Inc.	Polymeric viscosity modifier and formulation aids	10-12 oz/100 gal	Dry formulation
POLY CONTROL 2	Brewer International	Polyacrylamide copolymer	8 oz/100 gal	Drift control agent
SHROUD II	United Suppliers, Inc.	Greater than 99% polymeric dry drift reduction agent	12 oz/100 gal	
SITE	Loveland Industries	Polymeric starch 100%	5-15 oz/100 gal	Dry formulated drift control product

SPECTRA TANK MIX	Kalo, Inc.	Ammoniated salt solution as formulation aid, sodium polyacrylate-citrophosphate glycerol complex with siloxane	1-3 qt/100 gal water	Provides water conditioning, deposition polymer with antifoam ingredient
SPRAY-PREP	Kalo, Inc.	A blend of polyacrylamide and polysaccharide polymers and anti-foam agent	3-5 oz/100 gal	Dry adjuvant blend
SPRAY-START	Kalo, Inc.	A proprietary blend of ammonium sulfate, polyacrylamide and polysaccharide polymers and anti-foam agent	9-12 lb/100 gal	Dry water conditioner
STRIKE ZONE DC	Helena Chemical Co.	Proprietary blend of nonionic colloidol water soluble polymers	6 oz/100 gal, see label	Dry concentrate
STRIKE ZONE PPS	Helena Chemical Co.	Proprietary blend of nonionic colloidol water soluble polymers	9 lb/100 gal, see label	Dry concentrate contains antifoam and delivers 8.5 lb ammonium sulfate equivalent
TACTIC	Loveland Industries	Synthetic latex plus organosilicone surfactant fluid	See label	
TARGET	Loveland Industries	Polymers of acrylamide and acrylate	2-8 oz/100 gal	Dry formulation
TARGET LC	Loveland Industries	30% polyvinyl polymer (polyacrylamide)	1-4 oz/100 gal	
ULTRA GARD	Loveland Industries	Oil formulation containing drift reduction polymers, antifoam and water conditioners	1-2 qt/100 gal	
WINDBRAKE	Riverside - Cemex / Land O'Lakes	Polyvinyl polymer (polyacrylamide)	1-10 oz/100 gal	
WINDCHECK	Riverside - Cemex / Land O'Lakes	Polyvinyl polymer (polyacrylamide)	1-4 qt/100 gal	